



7510-395-301

# Material Safety Data Sheet

## 1.0 Product and Company Identification

**Identification of the preparation****HP LaserJet Print Cartridge  
C4149A****Company Identification**Hewlett-Packard Company  
11311 Chinden Boulevard  
Boise, Idaho 83714  
United States**Emergency telephone number  
Hewlett-Packard Health Effects Line**1-800-457-4209 (USA and Canada)  
Intl +1-503-494-7199 (all other areas)  
Singapore: +001-800-332-13321**General information telephone number**1-208-323-2551 (USA and Canada)  
Intl +1-208-323-2551 (all other areas)**Local Contact Information****Ireland**Liffey Park Technology Park  
Barnhall Road Leixlip, Co.  
Kildare, Ireland  
Phone: 01 6150000**United Kingdom**Hewlett-Packard, Ltd.  
Cain Road, Amen Corner  
Bracknell, Berkshire, RG12 1 HN  
Phone: 1344 36-0000

Hazard Rating	US NFPA/HMIS
Health	1
Flammability	1
Instability/Reactivity	0
Special	N/A

## 2.0 Composition/Information on Ingredients

This product is a black toner preparation that is used in Hewlett-Packard LaserJet 8500 or 8550 printers.

Component/Substance	CAS Number	EU Number	% by Weight	Risk Phrases
Styrene Acrylate Copolymer			40 - 50	
Iron Oxide	1317-61-9	2 15-277-5	40 - 50	

## 3.0 Hazard Identification

The preparation is not classified according to EU Directive 1999/45/EC

**Routes of Exposure**

Inhalation, ingestion, skin and eyes.

**Acute Health Hazards**



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<b>inhalation:</b>	Minimal respiratory tract irritation may occur with exposure to large amounts of toner dust.
<b>ingestion:</b>	ingestion is not applicable route of entry for intended use.
<b>Skin:</b>	Unlikely to cause skin irritation
<b>Eyes:</b>	May cause eye irritation.
<b>Chronic Health Hazards</b>	Prolonged inhalation of excessive amounts of any dust may cause lung damage. Use of this product as intended does not result in inhalation of excessive amounts of dust.
<b>Carcinogenicity</b>	Refer to section 11.

## 4.0 First Aid Measures

<b>Inhalation:</b>	Move person to fresh air immediately. If symptoms occur, consult a physician.
<b>Ingestion:</b>	Dilute stomach contents with several glasses of water. Get medical attention if symptoms persist.
<b>Skin:</b>	Wash affected areas thoroughly with soap and water. If irritation persists, consult a physician.
<b>Eyes:</b>	Immediately flush with large amounts of clean, lukewarm water (low pressure) for at least 15 minutes. If irritation persists, consult a physician.

## 5.0 Fire Fighting Measures

<b>Extinguishing media</b>	CO <sub>2</sub> , water, dry chemical
<b>Unsuitable Extinguishing Media</b>	None known
<b>Special Firefighting Procedures</b>	None
<b>Unusual fire and explosion hazards</b>	Toner material, like most organic material in powder form, is capable of creating a dust explosion.
<b>Auto-ignition temperature</b>	No data available
<b>Flashpoint (method)</b>	Not applicable
<b>Hazardous Combustion Products</b>	Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide

## 6.0 Accidental release measures

<b>Spill or leak procedures</b>	Wear personal protective equipment as described in Section 8. Avoid breathing dust. Minimize the release of particles. Vacuum or sweep the material into a bag or other sealed container. If a vacuum is used, the motor must be rated as dust tight. Dispose of waste toner in accordance with local requirements.
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**Environmental precautions**

Do not discharge into drains (See also section 13 Disposal Considerations).

**7.0 Handling and Storage****Advise on safe handling and protection against fire**

Keep material out of reach of children. Avoid inhalation of dust and contact with eyes. Keep away from excessive heat, sparks, and open flames.

**Requirements for storage rooms and advise on storage compatibility**

Keep out of the reach of children. Keep container closed and store at room temperature. Keep away from strong oxidizers,

**8.0 Exposure control/ personal protection****Exposure Limit Values****USA OSHA (TWA/PEL):**

15 mg/m<sup>3</sup> (Total Dust)  
5 mg/m<sup>3</sup> (Respirable Fraction)

**ACGIH (TWA/TLV):**

10 mg/m<sup>3</sup> (Inhalable Particulate)  
3 mg/m<sup>3</sup> (Respirable Particulate)

**TRGS 900 (Luftgrenzwert):**

10 mg/m<sup>3</sup> (Einatembare Partikel)  
3 mg/m<sup>3</sup> (Alveolengängige Fraktion)

**Exposure Controls****Respiratory protection**

Not required under intended use

**Ventilation**

Good general ventilation should be sufficient under intended use

**Protective gloves**

Not required under intended use

**Eye protection**

Not required under intended use

**Other protective equipment**

Not required under intended use

**9.0 Physical and chemical properties**

**pH** Not applicable

**Boiling point** Not applicable

**Flash point** Not applicable

**Melting point** 100 - 150°C (Softening Point)

**Flammability** Non-flammable solid (according to test methods of USA 16 CFR 1500.44 and 84/449/EEC (Annex V) A.I.O)

**Explosive properties** Toner material, like most organic material in powder form, is capable of creating a dust explosion

**Oxidizing properties** No data available

**Vapor Pressure** Not applicable

**Specific gravity (H<sub>2</sub>O=1)** 1.4 - 1.8

**Solubility in water** Negligible

**Solubility in organic solvents** Partially soluble in toluene and xylene

**Partition coefficient** Not applicable

**Viscosity** Not applicable



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**Vapor density** Not applicable  
**Evaporation rate** Not applicable  
**Physical state** Fine powder  
**Color** Black  
**Odor** Slight plastic odor  
**Other** None known

## 10.0 Stability and reactivity

**Stability** Stable under normal storage conditions  
**Incompatibilities** Strong oxidizers  
**Hazardous decomposition products** Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide  
**Hazardous polymerization** Will not occur

## 11 .0 Toxicological information

Refer to Section 3 for potential health effects and Section 4 for first aid measures.

### Acute Toxicity:

**Inhalation:** LC<sub>50</sub>:inh-rat->5mg/L/4 hrs. (data from similar toner), not harmful.

**Ingestion:** LD<sub>50</sub>:orl-rat->2000 mg/kg (data from ingredients of toner), not harmful.

**Eye Contact:** Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC (data from ingredients of toner).

**Skin Contact:** Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC (data from ingredients of toner).

**Chronic Toxicity:** No data available

**Sensitization:** Not classified as a sensitizer according of EU Directive 67/548/EEC and OSHA HCS (US).

**Mutagenicity:** Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)

**Carcinogenicity:** Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California)

**Reproductive Toxicity:** Not classified as toxic according to EU Directive 67/548/EEC, California Prop. 65, or DFG (Germany).

**Other:** Sub-Acute Toxicity (Rat)- 90 day inhalation test, No Observable Effect Level (NOEL): 16 mg/m<sup>3</sup>. Expected air concentration levels under printing conditions are <0.01mg/m<sup>3</sup>



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## 12.0 Ecological Information

No data available for ecological and wastewater treatment (sewage) systems'. Avoid spills and dispose of in accordance with applicable laws and regulations.

## 13.0 Disposal considerations

Product / unused product / contaminated packaging (for Germany only)  
Recommendation: consult with the disposal agency and the relevant authorities;  
cleansing agent is water.

## 14.0 Transportation information

Not a regulated article under DOT, IATA, ADR, or RID

**UN Number** None

**Class** None

**Proper Shipping Name** None

**Packing Group** None

**Special Precautions** None

## 15.0 Regulatory information

**US EPA TSCA Inventory** All ingredients are listed on TSCA inventory

**US EPA TSCA 12(b)** None

**US California Proposition 65** None

**EU Notification** All components in this product are compliant with  
EU Chemical Inventory regulations.

**EU R&S Phrase Information** **No** European Risk Phrases (labeling data)

**Dangerous Components** None

**(CAS No.) wt%**

**USA Labeling**

**Symbol** Not required

**Hazard Warning** Not required

**Safety Advice** Not required

**Hazardous Component(s)** None

## 16.0 Other information

**Date Prepared:** August 1, 2002

**HP-DMS Document Control** 09000de78000d9e5

**Number:**

**Revision Information:** This document replaces all prior versions of the MSDS

**EU Information** This MSDS was prepared in compliance with EU  
Directive 91/155/EEC as amended by 2001/58/EC and  
USA OSHA Hazard Communications regulations  
(29CFR1910.1200).



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